

ABSTRACT

DATA PROCESSING APPARATUS AND METHOD FOR
OPTIMISING CONFIGURATION PARAMETERS
OF A PHYSICAL SYSTEM

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A technique for determining optimum parameters of a model of a physical system is disclosed in which at least one initial string of values representing the parameters of the model to be optimised is obtained. A cost value associated with the model having parameters represented by the each string of values is determined. A new string of values is repeatedly generated by selecting a sequence of values of random length, starting at a random position in a string of values, replacing a sequence of values of the same length in a string of values at a random position, and changing the value of one or more of the values of the resulting string of values to generate a new string of values. The cost value associated with the model having parameters represented by the new string of values is determined and the optimum parameters are determined as one of the initial or new string of values for which the cost value associated with the model having the optimum parameters is closest to a target.

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